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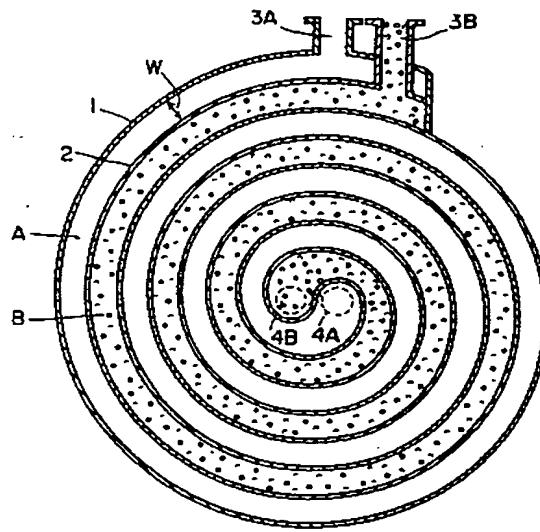
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TITLE : HEAT ACCUMULATING DEVICE
UTILIZING SPIRAL TYPE HEAT
EXCHANGER



ABSTRACT : PURPOSE: To obtain the heat accumulating device utilizing the spiral type heat exchanger by a method wherein heat accumulating medium is sealed into one of two spaces, formed through a flat plate in a scroll body, while heat medium flows through the other space of said two spaces.

CONSTITUTION: The heat medium, employed in this device, consist of the combination of a solid, effecting as latent heat accumulating agent, and liquid, effecting as the heat transfer medium between the solid and the bulkhead or flat plates 1, 2 of the heat exchanger. One embodiment of such the heat accumulating medium is a slurry in which the crystal of pentaerythritol is dispersed into liquid medium which does not dissolve the crystal. The space, sealing the heat accumulating medium, is preferable to be the space B which is not located at the outer periphery of the scroll body in order to avoid cooling. Upon accumulating heat, fluid having the amount of heat to be reserved is supplied from a communicating port 4A near the axle of scroll and is discharged out of the communicating port 3A while the fluid for receiving heat is supplied from the port 3A and is discharged out of the port 4A upon dissipating the heat.

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